

10-25-00 EJ474269802US

PTO/SB/05 (08-00)

Please type a plus sign (+) inside this box → ☒

Approved for use through 10/31/2002. OMB 0651-0032

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

UTILITY
PATENT APPLICATION
TRANSMITTAL

Attorney Docket No. 1009-02-01

First Inventor Stephanie

Title System and Apparatus...

Express Mail Label No. EJ474269802

(Only for new nonprovisional applications under 37 CFR 1.53(b))

APPLICATION ELEMENTS

ADDRESS TO:

Assistant Commissioner for Patents
Box Patent Application
Washington, DC 20231

See MPEP chapter 600 concerning utility patent application contents.

1. ☒ Fee Transmittal Form (e.g., PTO/SB/17)
(Submit an original and a duplicate for fee processing)
2. ☒ Applicant claims small entity status.
See 37 CFR 1.27.
3. ☒ Specification [Total Pages 57]
(preferred arrangement set forth below)
- Descriptive title of the invention
 - Cross Reference to Related Applications
 - Statement Regarding Fed sponsored R & D
 - Reference to sequence listing, a table, or a computer program listing appendix
 - Background of the Invention
 - Brief Summary of the Invention
 - Brief Description of the Drawings (if filed)
 - Detailed Description
 - Claim(s)
 - Abstract of the Disclosure
4. ☒ Drawing(s) (35 U.S.C. 113) [Total Sheets 5]
5. Oath or Declaration [Total Pages 3]
- a. ☒ Newly executed (original or copy)
Copy from a prior application (37 CFR 1.63 (d))
(for continuation/divisional with Box 17 completed)
- b. ☐ DELETION OF INVENTOR(S)
Signed statement attached deleting inventor(s) named in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b).
- i. ☐ DELETION OF INVENTOR(S)
Signed statement attached deleting inventor(s) named in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b).
6. ☐ Application Data Sheet. See 37 CFR 1.76

7. ☐ CD-ROM or CD-R in duplicate, large table or Computer Program (Appendix)
8. Nucleotide and/or Amino Acid Sequence Submission (if applicable, all necessary)
- a. ☐ Computer Readable Form (CRF)
- b. Specification Sequence Listing on:
- i. ☐ CD-ROM or CD-R (2 copies); or
- ii. ☐ paper
- c. ☐ Statements verifying identity of above copies

ACCOMPANYING APPLICATION PARTS

9. ☒ Assignment Papers (cover sheet & document(s))
10. ☐ 37 CFR 3.73(b) Statement ☐ Power of Attorney
(when there is an assignee)
11. ☐ English Translation Document (if applicable)
12. ☐ Information Disclosure Statement (IDS)/PTO-1449 ☐ Copies of IDS Citations
13. ☐ Preliminary Amendment
14. ☒ Return Receipt Postcard (MPEP 503)
(Should be specifically itemized)
15. ☐ Certified Copy of Priority Document(s)
(if foreign priority is claimed)
16. ☐ Other:

17. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in a preliminary amendment, or in an Application Data Sheet under 37 CFR 1.76:

☐ Continuation ☐ Divisional ☐ Continuation-in-part (CIP)

of prior application No.: _____/_____

Prior application information:

Examiner: _____

Group / Art Unit: _____

For CONTINUATION OR DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.

18. CORRESPONDENCE ADDRESS

☒ Customer Number or Bar Code Labelor ☐ Correspondence address below

22884

Name

PATENT TRADEMARK OFFICE

Address

City

State

Zip Code

Country

Telephone

Fax

Name (Print/Type)

CHARLES G LAMB

Registration No. (Attorney/Agent)

24,783

Signature

Date 10/23/00

Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Box Patent Application, Washington, DC 20231.

10/24/00

00606530-102400

JCS41 U.S. P. 09/695339

10/24/00

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

**FEE TRANSMITTAL
for FY 2001**

Patent fees are subject to annual revision.

TOTAL AMOUNT OF PAYMENT

(\$) 458.00

Complete if Known

Application Number

Filing Date

First Named Inventor

Examiner Name

Group Art Unit

Attorney Docket No.

METHOD OF PAYMENT

- 1.
- ☐
- The Commissioner is hereby authorized to charge indicated fees and credit any overpayments to:

Deposit
Account
NumberDeposit
Account
Name☐ Charge Any Additional Fee Required
Under 37 CFR 1.16 and 1.17☐ Applicant claims small entity status.
See 37 CFR 1.27

- 2.
- ☒
- Payment Enclosed:

☒ Check ☐ Credit card ☐ Money
Order ☐ Other**FEE CALCULATION****1. BASIC FILING FEE**

Large Entity Small Entity

Fee Fee Fee Fee
Code (\$) Code (\$)

Fee Code	Fee (\$)	Fee Code	Fee (\$)	Fee Description	Fee Paid
101	710	201	355	Utility filing fee	355
106	320	206	160	Design filing fee	
107	490	207	245	Plant filing fee	
108	710	208	355	Reissue filing fee	
114	150	214	75	Provisional filing fee	

SUBTOTAL (1) (\$) 355

2. EXTRA CLAIM FEES

Total Claims	Extra Claims	Fee from below	Fee Paid
27	-20** = 7	9	63.00
2	-3** = 0	0	0
Independent Claims			
Multiple Dependent			

Large Entity Small Entity

Fee Fee Fee Fee
Code (\$) Code (\$)

Fee Code	Fee (\$)	Fee Code	Fee (\$)	Fee Description	Fee Paid
103	18	203	9	Claims in excess of 20	
102	80	202	40	Independent claims in excess of 3	
104	270	204	135	Multiple dependent claim, if not paid	
109	80	209	40	** Reissue independent claims over original patent	
110	18	210	9	** Reissue claims in excess of 20 and over original patent	

SUBTOTAL (2)

(\$) 63.00

**or number previously paid, if greater; For Reissues, see above

FEE CALCULATION (continued)**3. ADDITIONAL FEES**Large Entity Small Entity
Fee Fee Fee Fee
Code (\$) Code (\$)

Fee Code	Fee (\$)	Fee Code	Fee (\$)	Fee Description	Fee Paid
105	130	205	65	Surcharge - late filing fee or oath	
127	50	227	25	Surcharge - late provisional filing fee or cover sheet	
139	130	139	130	Non-English specification	
147	2,520	147	2,520	For filing a request for <i>ex parte</i> reexamination	
112	920*	112	920*	Requesting publication of SIR prior to Examiner action	
113	1,840*	113	1,840*	Requesting publication of SIR after Examiner action	
115	110	215	55	Extension for reply within first month	
116	390	216	195	Extension for reply within second month	
117	890	217	445	Extension for reply within third month	
118	1,390	218	695	Extension for reply within fourth month	
128	1,890	228	945	Extension for reply within fifth month	
119	310	219	155	Notice of Appeal	
120	310	220	155	Filing a brief in support of an appeal	
121	270	221	135	Request for oral hearing	
138	1,510	138	1,510	Petition to institute a public use proceeding	
140	110	240	55	Petition to revive - unavoidable	
141	1,240	241	620	Petition to revive - unintentional	
142	1,240	242	620	Utility issue fee (or reissue)	
143	440	243	220	Design issue fee	
144	600	244	300	Plant issue fee	
122	130	122	130	Petitions to the Commissioner	
123	50	123	50	Petitions related to provisional applications	
126	240	126	240	Submission of Information Disclosure Stmt	
581	40	581	40	Recording each patent assignment per property (times number of properties)	40
146	710	246	355	Filing a submission after final rejection (37 CFR § 1.129(a))	
149	710	249	355	For each additional invention to be examined (37 CFR § 1.129(b))	
179	710	279	355	Request for Continued Examination (RCE)	
169	900	169	900	Request for expedited examination of a design application	

Other fee (specify) _____

* Reduced by Basic Filing Fee Paid

SUBTOTAL (3)

(\$) 490.00

SUBMITTED BY

Name (Print/Type)

CHARLES B. LAMB

Registration No.
(Attorney/Agent)

24,783

Complete (if applicable)

Telephone

502 584 1135

Signature

[Signature]

Date

10/23/00

WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

Application for Letters Patent

**SYSTEM AND APPARATUS FOR HOSTING COMBINED ONLINE AND LIVE
AUCTIONS**

Stephanovic et al.

OUTLINE:

1. Abstract
2. Field of the invention
3. Background
4. Summary of the Invention
5. Description of the Drawings
6. Detailed Description of Illustrated Embodiments
7. Claim

F&K 1009-02-01

Page 2

**SYSTEM AND APPARATUS FOR HOSTING COMBINED ONLINE AND LIVE
AUCTIONS**

5 This invention is in the field of auction systems, and more particularly deals with a system and method for the conduct of an auction at an auction site with bidders both in physical attendance at the auction site as well as being present at the auction via an Internet broadcast.

BACKGROUND

10

In the e-commerce arena, there is a proliferation of online auction sites. Most of these sites simply allow a bidder to post a bid to an auction hosted on a Web site, which auction might either be static in nature and run over an extended period of time, or in certain circumstances may run on a shorter timeline and somewhat more closely approximate the experience of a traditional auction with an auctioneer. Traditional auctions with an auctioneer also remain popular for both buyers and sellers insofar as equipment or products auctioned often times receive increased prices, the auction method as traditionally practiced is simple to use for everyone and is adaptable to any industry.

15 20 One of the primary concerns of an auctioneer in preparing an auction sale is to ensure as

F&K 1009-02-01

Page 3

large a number of bidders in attendance at the sale as possible, which will maximize the potential of bids and increased returns on different lots in the sale. Particularly in cases where the items being auctioned are large or unwieldy to transport, such as agricultural or industrial equipment, it is necessary for people interested in viewing and bidding on that
5 equipment to actually travel to the site of the auction since the costs of transport of the equipment, generally speaking, means that it is impractical to consolidate the equipment elsewhere off of the previous location of that equipment. People who are only interested or looking at one or two lots in a larger sale may not be able to justify the cost of travel if the travel is a long distance or to a remote location, to participate in such an auction sale.

10 One alternative to travelling to such an auction sale is to conduct the sale entirely online over the Internet or another computer network or communications network, but in the case of a traditional online auction the quality of the interaction between the auctioneer and bidders in attendance at the sale in the electronic format is diminished. Furthermore, it is difficult to
15 generate the same level of excitement in a static online auction sale that is found in a fast-paced physical auction sale, in which higher bids might be secured on various auction lots.

It would be preferable to provide a system and method for the conduct of an auction which would allow for the attendance and participation of bidders at the physical auction site as
20 well as other bidders who could not physically attend being able to participate in an online

F&K 1009-02-01

Page 4

format.

SUMMARY OF THE INVENTION

5

It is the object of the present invention to overcome the limitations of the prior art.

It is more specifically the object of the present invention to provide a system and method for the conduct of an auction at an auction site which would allow for placement of auction bids by bidders in physical attendance at the auction site, as well as by bidders in virtual presence at the auction by way of a connection over the Internet.

It is the further object of the present invention to provide a system allowing for the conduct of auctions with both live and online bidders where it is not necessary to transport and install a significant quantity of computer equipment at the auction site. It is the further object of the present invention to provide such a system which requires minimal network connectivity from the auction site.

The present invention accomplishes these objectives in a first embodiment being an apparatus for the conduct of an auction from a physical location allowing for the participation

F&K 1009-02-01

Page 5

of both live bidders and online bidders, wherein a live bidder is a bidder present at the auction site and an online bidder is a bidder who is not present at the auction site, but who has computer access to the auction sale, wherein the apparatus itself comprises an auction Web site system which is able to communicate with the bidder computers of online bidders
5 and receive online bids, said Web site system including software components for the handling of bids, and a site terminal being located at the physical location of the auction which is operatively connected to said Web site system, which site terminal transmits the details of live bids placed by live bidders in attendance at the physical location to the Web site system. Online bids and live bids are all transmitted to the Web site system by either
10 bidder computers or the site terminal and are recorded by the auction software components in the Web site system. This allows for both live bidders and online bidders to bid on the same auction lot at the same time.

The auction software components of the Web site system of the present invention would
15 record bids in the Web site system in the order they were received, which might be accomplished by the assignment of either time stamp or sequence code to the bids upon their receipt by said Web site system.

An auctioneer could be present at the live physical location of the auction and participate in
20 the auction, or alternatively would not be necessary. It will be understood that both the

F&K 1009-02-01

Page 6

participation of an auctioneer or the running of an auction without an auctioneer are contemplated within the scope of the present invention. Insofar as the live bidder at the auction site would likely not wish to be there for a long period of time, it will be understood that the primary application of the apparatus of the invention is what will be termed a "live" auction, with a bidding session of a limited duration of time, versus a "static" auction, such as those conducted on eBay™ or the like where the bidding session might be stretched to a number of days. It will, however, be understood that the apparatus of the present invention could also be used with such a static auction and, as such, the applicability thereof is also contemplated within the scope of the present invention.

Where an auctioneer was participating in the auction or where it was otherwise desirable to have online bidders be able to actually view content from the auction site, such as pictures or live content of the auction lot itself or the like, at least one media capture device could be added at the site and could be operatively connected to the site terminal. The media capture device might be something such as a microphone to capture the feel from an auctioneer's participation, or alternatively or cumulatively also include a camera or the like to show pictures of an auction lot or the auction site itself. The media input itself from these media capture devices which are connected to the site terminal would be transmitted by the site terminal to the Web site system, and from the Web site system the media input would then be streamed or broadcast out to the bidder computers for viewing therein. While it is obviously

F&K 1009-02-01

Page 7

the object of the present invention to keep processing requirements at the actual auction location to a minimum. the site terminal might partially process the media input from the media capture devices in advance of transmitting same to the Web site system. For example, compression might be applied or other techniques used.

5

The apparatus of the present invention could be further modified wherein the Web site system would provide up-to-date auction status information to bidders as bids were recorded or accepted. Auction status information might be provided to an online bidder by transmitting that information to their bidder computer. In the case of a live bidder present at the auction site, the auction status information might be displayed to live bidders by transmitting that information to site terminal for display, announcement or other use.

In certain cases, the Web site system of the present invention and the site terminal would be one computer, or in others the Web site system and the site terminal could be separate computers. The Web site system might either be located at the same location as the auction location or, alternatively, could be located in a centralized computing location away from the auction site.

The auction software components of the Web site system of the present invention might optimally comprise a merchandise database containing information pertaining to auction lots,

F&K 1009-02-01

Page 8

and a bid database containing details of bids received from both online and live bidders with respect to auction lots. An auction control system which would control the actual process and acceptance of bids would, during the conduct of an auction, receive live bid details from the site terminal and online bids from bidder computers, and record the details of both said
5 live bids and online bids in the bid database. Upon detection of an auction-closing condition, the auction control system would accept no further bids and the successful bidder could then either be determined manually by an operator of said Web site system or alternatively could be determined by the auction control system in the comparison of successfully recorded bids from the bid database.

10

Also disclosed is a method of conducting an auction which allows the placement of online bids from an online bidder as well as the placement of live bids by live bidders present at an auction location, said method comprising the steps of providing an auction Web site system which can communicate with the bidder computers of online bidders, said Web site system
15 including auction software components capable of receiving and recording online bids and live bids in respect of auction lots, and providing a site terminal at the auction location which is operatively connected to the Web site system, the Web site system and site terminal used to conduct an auction thereof by accepting online bids transmitted from bidder computers to the Web site system, allowing live bidders to place live bids at the auction location with the
20 details of the live bids then being entered into said site terminal for transmission to the Web

F&K 1009-02-01

Page 9

site system for recordal therein as live bids, recording bids received from online and live bidders in the Web site system as received, and upon detection of an auction-closing condition, ceasing the acceptance of any further bids by said Web site system.

- 5 This method might further comprise the step of displaying up-to-date status information pertaining to an auction lot to online bidders at their bidder computers or to live bidders via the site terminal.

- 10 Media content such as audio/video could be captured at the auction site and transmitted via the site terminal to the Web site system from whence it could be broadcast to bidder computers engaged in the bidding session.

DESCRIPTION OF THE DRAWINGS:

15

While the invention is claimed in the concluding portions hereof, preferred embodiments are provided in the accompanying detailed description which may be best understood in conjunction with the accompanying diagrams where like parts in each of the several diagrams are labeled with like numbers, and where:

20

F&K 1009-02-01

Page 10

Figure 1 is a general architectural drawing of one embodiment of the system of the present invention;

Figure 2 shows the component of the system of Figure 1 in more detail;

5

Figure 3 demonstrates the flow of a typical series of auction transactions through the system of Figures 1 and 2;

Figures 4 to XX are sample Web pages which might be used in the conduct of an auction in accordance with the present invention.

10

DETAILED DESCRIPTION OF THE ILLUSTRATED EMBODIMENTS:

15 To facilitate a complete understanding of the invention, the description of the preferred embodiments herein are arranged within the following sections:

1. Glossary of Terms and Acronyms
2. Overview of System Components and Operation
- 20 3. Auction Software Components

F&K 1009-02-01

Page 11

4. Media Capture
5. Communication Between Site Terminal and Auction Server
6. Conclusion

5

Glossary of Terms and Acronyms

The following terms and acronyms are used throughout the detailed description:

- 10 *Client-Server.* A model of interaction in a distributed system in which a program at one site sends a request to a program at another site and waits for a response. The requesting program is called the "client," and the program which responds to the request is called the "server." In the context of the World Wide Web (discussed below), the client is a "Web browser" (or simply "browser") which runs on a computer of a user; the program which
- 15 responds to browser requests by serving Web pages is commonly referred to as a "Web server."

- Internet.* A collection of interconnected (public and/or private) networks that are linked together by a set of standard protocols (such as TCP/IP and HTTP) to form a global,
- 20 distributed network. (While this term is intended to refer to what is now commonly

F&K 1009-02-01

Page 12

known as the Internet, it is also intended to encompass variations which may be made in the future, including changes and additions to existing standard protocols.)

World Wide Web ("Web"). Used herein to refer generally to both a distributed collection

5 of interlinked, user-viewable hypertext documents (commonly referred to as Web documents or Web pages) that are accessible via the Internet, and the client and server software components which provide user access to such documents using standardized Internet protocols. Currently, the primary standard protocol for allowing applications to locate and acquire Web documents is HTTP, and the Web pages are encoded using

10 HTML. However, the terms "Web" and "World Wide Web" are intended to encompass future markup languages and transport protocols which may be used in place of (or in addition to) HTML and HTTP.

Web site. A computer system that serves informational content over a network using the

15 standard protocols of the World Wide Web. Typically, a Web site corresponds to a particular Internet domain name, such as abc.com," and includes the content associated with a particular organization. As used herein, the term is generally intended to encompass both the hardware/software server components that serve the informational content over the network, and the "back end" hardware/software components, including

F&K 1009-02-01

Page 13

any non-standard or specialized components, that interact with the server components to perform services for Web site users.

HTTP (HyperText Transport Protocol). The standard World Wide Web client-server protocol used for the exchange of information (such as HTML documents, and client requests for such documents) between a browser and a Web server. HTTP includes a number of different types of messages which can be sent from the client to the server to request different types of server actions.

“HTML” (Hypertext Mark-up Language). A standard coding convention and set of codes for attaching presentation and linking attributes to informational content within documents. During a document authoring stage, the HTML codes are embedded within the informational content of the document and when the Web document (HTML document) is subsequently transferred from a Web server to a browser, the codes are interpreted by the browser and used to parse and display the document. In addition to specifying how the Web browser is to display a document, HTML tags can also be used to create links to other Web documents.

Overview of System Components and Operation

F&K 1009-02-01

Page 14

An inventive system and method is disclosed for conducting a multi-bidder interactive auction allowing both the participation of bidders online by computer connection, as well as allowing bidders to actually attend at an auction site to view the merchandise lots and/or to place live bids. Implemented in the combination of software and hardware components

5 outlined in more detail below, the electronic auction system allows a group of live and online bidders to interactively place bids which are communicated over a computer communications network to an auction Web site system which automatically records the bids and updates all of the bidders with the current auction status information, closes the auction from further bidding when appropriate and determines the successful bidder.

10

Bidders who wish to access the auction and place bids from a remote location away from the site of the auction, and who will access the system by way of a computer connection, are referred to as "online bidders" in the course of the remainder of this description. A bid placed by an online bidder over the computer is an "online bid". With respect to people who

15 actually wish to attend at the physical site of the auction, these are referred to as "live bidders" throughout the remainder of the description hereof, and a bid placed by a live bidder is a "live bid". A live bid might be placed by a live bidder at the auction location either in the traditional fashion of announcing or indicating the bid to an auctioneer, or alternatively the site terminal itself might be equipped to allow live bidders wishing to attend at the

20 auction site to place a bid in a similar fashion to that of an online bidder whereby a live bid

F&K 1009-02-01

Page 15

would actually be a bid submitted from the site terminal directly by a live bidder. Alternatively, where bids were placed in a traditional fashion, such as indicating the placement or acceptance of a bid to an auctioneer present at the location of the auction, the auctioneer or an assistant might enter the details of the live bids into the site terminal and

5 transmit them to the Web site system in that fashion.

The system and method of the present invention lends itself particularly to the execution of a short term or real time auction, emulating a traditional auction in which bidders are present in the auction hall and an auctioneer induces bids from bidders in the auction hall on a

10 particular auction lot up for sale. While it is not particularly contemplated that the method of the present invention would be preferably practiced in a static online auction format, such as that on eBay™ or the like, it will be understood that a static auction format would also fall within the scope of the claimed invention as well.

15 The system and method of the present invention employs a client server methodology, both in terms of the communication of online bidders via their bidder computers with the Web site system of the present invention as well as with the site terminal which is used to record and transmit the details of the live bids placed by live bidders to the Web site system for recordal.

Obviously, the client server design of the Web site system of the present invention allows

20 bidders who can access said Web site system via a bidder computer and browser and/or

F&K 1009-02-01

Page 16

Internet connection, but it also decreases the amount of electronic equipment and gear which must be transported to and installed at the actual auction site if it is desired to actually run the auction from the auction site rather than from a remote server location. It would particularly be the case that it would be desired to operate at least the visible aspect of the auction process from the auction site where it was desired to still run a quasi-traditional auction with an auctioneer taking part in the auction to induce more bids.

The reduction of the equipment requirements and communications overhead required at an auction site will expand the reach of the system and method of the present invention. For example, there might be a situation where it was desired to auction a large number of pieces of unwieldy equipment which it would be prohibitively expensive to move in advance of auction to a traditional auction yard. The system of the present invention allows for the set up of only a site terminal at the actual physical location of the auction and an auctioneer could then participate, or not as the case may be, in the auction from the auction site where live bidders in physical attendance at the auction site could view the lots for sale and place live bids therefrom, while online bidders could place online bids with the Web site system of the present invention by transmission of their bids directly to the Web site system rather than to the site terminal. The "back office" functions of the auction can still take place at a central computing center where the Web site system of the present invention is installed, but the outreach which is provided to auctioneers employing this type of a system is exponential

F&K 1009-02-01

Page 17

insofar as in certain cases all that would be necessary at an auction site would be a simple telephone line or the like to establish an Internet connection between the site terminal and the Web site system for communication of auction status information to the site terminal regarding online bids received at the computing center, as well as for the purpose of
5 communicating live bids back to the central system.

Figure 1 illustrates the general architecture of an auction system in accordance with the present invention. It includes at least one bidder computer (1), an auction Web site system (2), and a site terminal (3). The site terminal (3) is located at the actual auction site (4),
10 whereas the auction Web site system (2) could be physically domiciled at a remote computing site (5). It will be understood that the location of the Web site system (2) and the site terminal (3) at the same location or in different locations is contemplated within the scope of the present invention. The site terminal (3) is operatively connected in communication with said Web site system (2). Similarly, the bidder computers (1) can also
15 communicate with the auction Web site system (2). In this particular case, three bidder computers (1) are shown, but it will be understood that any number of bidder computers (1) which could be accommodated by the hardware capacity of the auction Web site system (2) are contemplated within the scope of the present invention. In association with the bidder computers (1) which are illustrated therein, the bidder computers (1) insofar as they
20 communicate with the Web site (2) by the Internet (11) could be connected by modem or any

F&K 1009-02-01

Page 18

other available method of Internet connection and it will be understood that the present invention is intended to encompass all such methods of physical connection of the bidder computers (1) to the Web site (2).

5 Furthermore, for the sake of illustration of the second half of the bidding equation of this invention, three live bidders (6) are shown who are in physical attendance at the auction site (4). Again, it will be understood that in terms of the numbers of live bidders (6) who could be accommodated at the auction site (4), that will be limited only by the communication capacity of the site terminal (3) to the auction Web site system (2), as well as the practical
10 capacity of the auction venue and/or the auctioneer involved in the sale. It will be understood that in a situation where a large number of live bidders (6) were anticipated at the auction venue (4), additional site terminals (3) could be added to provide for additional communication capacity with the central auction Web site system (2) whether it be on or off site.

15 The bidder computers (1) are connected to the auction Web site system (2) via the Internet (11). It will be understood that the bidder computers (1) might be any type of a computing device that would allow an online bidder to interactively browse Web sites via a Web browser (12). For example, the bidder computer (1) might be a personal computer running
20 any one of the Microsoft Windows™ operating systems. It will be understood that any types

F&K 1009-02-01

Page 19

of computing devices running other operating systems could also be used as the bidder computer (1) so long as they were able to connect to the Internet (11) to establish communications with the auction Web site system (2) and transmit online bids thereto. It will be understood that all such other capable devices are contemplated within the scope of the present invention.

The site terminal (3) is adapted to communicate with the Web site system (2) as well. The site terminal (3) might communicate with the auction Web site system (2) also over the Internet (11), or by some type of a private or proprietary network connection. As shown here, the site terminal (3) and the Web site system (2) are physically separated at two different locations. It will also be understood that the site terminal (3) and the Web site system (2) might be domiciled in the same physical location, in the situation where the entire system of the present invention was installed in a permanent auction venue or the like, and it will also be understood that in such a case where the site terminal (3) and the site of the auction (4) are in the same place as the Web site system (2), the Web site system (2) and the site terminal (3) might actually be combined into the same set of computing hardware. While separate hardware is demonstrated in these figures, it will be understood that this combination of the hardware into a single unit is also contemplated within the scope of the present invention.

F&K 1009-02-01

Page 20

The link between the Web site system (2) and the bidder computer (1) does not have to be a physical link – it can, for example, be a link via a modem, some type of a radio connection or any other link. An online bid could be submitted from any one of the bidder computers (1).

5 The Web site system depicted in Figure 1 may be embodied in hardware specifically provided to implement the present invention or alternatively the system may be implemented using the infrastructure that already exists in a particular company or for a particular user. It is particularly contemplated that the server (10) of the Web site system (2), and the bidder computer (1) and site terminal (3), might be a server computer and client computers
10 operatively connected by the Internet. The hardware and communications links of these systems might be used as an infrastructure for the practice of the present invention. Changes to the existing central server computers (10) to incorporate the subject invention may be accomplished in various ways, such as programming an existing central file server computer or by adding an additional central file server computer (with or without a CPU entirely
15 dedicated to the processing of bid information). Alternatively, the subject invention may be implemented using existing hardware entirely, making appropriate software updates.

It is necessary to yet again stress the versatility of the present system which is provided by centralizing the majority of the accounting and information functions of the conduct of a
20 combined online and live auction in the Web site system (2) of the present invention, with

F&K 1009-02-01

Page 21

the site terminal (3) and/or the bidder computers (1) potentially simply operatively connected to the Web site system (2) via the Internet. In particular, the server (10) of the Web site system (2) might communicate with the site terminal (3) by way of a modem, network connection or some other method or apparatus allowing for the transmission or receipt of data between the central server (10) and an external device. While the illustrated embodiment here uses a wireless network connection over the Internet to communicate between the site terminal (3) and the server (10)/Web site system (2), it should be understood that other method of communication could be used instead. These other methods include hardwired connections, radio communications, optical communications and the like, and it will be understood that all such method of communication between the site terminal (3) and the Web site system (2) and its server (10), regardless of communication protocol, are contemplated within the scope of the present invention.

As outlined above, in this particular case, the communications link between the site terminal (3) and the Web site system (2) and its server (10) is by way of a wireless Internet connection. The use of such a connection allows for the conduct of an auction of the present invention at virtually any location to which such a wireless or radio communications link can be established, since depending upon the period of time involved in the conduct of the auction the actual site terminal (3) might even be a battery powered portable computer. An auctioneer who used the system of the present invention could feasibly conduct an auction

F&K 1009-02-01

Page 22

with online and live bidders in any location to which the necessary communications link could be established and to which the requisite power requirements could be satisfied for the minimal amount of hardware on site, ie. the site terminal (3). In the case of a local auction company, for example, agricultural auctions could be held in various farm locations so long as a wireless connection could be established back to the central office of the auction company where the Web site system (2) and its server (10) were domiciled. To stretch this further, an auctioneer could feasibly run a physical and/or online auction at an auction site anywhere in the world so long as there was the ability to connect to the Internet and establish a link back to the Web site system (2).

The centralization of computing functions in this auction format also results in a decreased amount of communications bandwidth required between the site terminal (3) and the Web site system (2). This allows for the use of the system of the present invention even in areas where only a slower speed communications link could be established.

There is also shown in Figure 1 an auction lot (23) itself at the auction location (4) which in this case and in this illustration is a car.

Figure 2 demonstrates the details of the computers of the present system and embodiment in more detail. The Web site system (2) includes, in terms of hardware, a server (10). The

F&K 1009-02-01

Page 23

server (10) will be capable of executing various program instructions and operating various software components required in the operation of the system and method of the present invention. The auction Web site system (2) will interface with a bidder computer(s) (1) by way of a bidder Web browser (12). Software components (16) within the server (10) are capable of serving content to the Web browser (12) from a repository of HTML documents (13) or the like contained within the storage area of the server (10). For example, an online bidder from their Web browser (12) could send a request to the Web site system (2) to view information with respect to a particular auction lot and/or to place a bid thereon, and the server (10) could interpret that request and by way of its software components (16) retrieve information from its HTML document repository (13) and serve same information back to the Web browser (12) on the bidder computer (1). The basic client server operation of a Web server (10) and Web browser (12) will be understood to one skilled in the art, and all such basic variations thereon are contemplated within the scope of the present invention.

Contained within the memory of the server (10), accessible to computer software components (16) executed thereon, is a merchandisc database (14) which contains information pertaining to various auction lots (23) to be auctioned off for sale. Various types of information might be stored with respect to different auction lots (23), including descriptive information for the use of bidders as well as other information such as pricing or bidding parameters to be used internally by the system (2).

F&K 1009-02-01

Page 24

The auction Web site system (2) would also include a bid database (15) in which would be stored the particulars of bids received from various bidders in respect of auctions of auction lots (23) from the database (14). As in the case of the merchandise database (14), it will be understood that the bid database (15) could also contain additional information to extend the functionality of the system of the present invention, but the baseline requirements for the proper operation of the system would be to store the bid amount, an indication of the auction lot in respect of which the bid is placed, as well as identification of the bidder placing the bid.

Where the site terminal (3) was also connected via the Internet (11) to the Web site system (2) and its associated server (10), the site terminal (3) might also employ a Web browser (24) to interact with the server (10). Again, documents from the document repository (13) of the server (10) could be served to the terminal browser (24) upon request thereby and those documents from the repository (13) might include various data entry forms by way of which an operator of the site terminal (3) could provide information or bid details back to the Web site system (2). The terminal browser (24) transmits the details of live bids from the auction site (4) to the Web site system (2).

In operation, an online bidder (7) could access the auction Web site system (2) using a

F&K 1009-02-01

Page 25

standard Web browser (12), using a protocol such as HTTP to communicate with the Web server (10) of the Web site system (2). Through the auction Web site system (2) and the associated Web server (10), the online bidder (7) is able to transact business and place bids with the system (2). The customer might also choose to or be able to view descriptive
5 information from the merchandise database (14) about various merchandise lots (23), and at the heart of the invention can participate in auctions of various merchandise lots (23) of which information is stored in the merchandise database (14) by being able to place online bids (9) in respect thereof. An online bidder (7) can, through their Web browser (12) and their bidder computer (1), place online bids (9) on a lot or lots (23) up for auction and
10 potentially purchase such auction lots (23) if they are the successful bidder in such an auction.

During an auction bidding session in respect of a merchandise lot (23), they might view up-to-date status information of the auction in their browser (12) by requesting that information
15 from the server (10) which would serve it from its HTML document repository (13). When the online bidder sees an opportunity at which they would like to place a bid they could, through a form on the HTML document that they were viewing, enter the particulars of their bid and transmit that to the Web site system (2) for recordal in the bid database (15). Figure 4 demonstrates one type of a screen display which might take place in the course of an
20 auction wherein an online bidder was placing a bid on an auction lot. The sample HTML

F&K 1009-02-01

Page 26

page (20) which would be viewed in a bidder browser shows in this case details pertaining to the particular auction lot in question from the merchandise database (14). These details are shown at (21). The system shown in the sample document (20) includes both a series of predetermined bid increments in one frame at the bottom of the screen (22), from which an
5 online bidder could select a bid amount, or alternatively there is shown in another frame (23) an area in which a bid could be entered and transmitted to the server (10) by clicking on the place bid button or hyperlink shown on that screen which would result in the communication of the contents of the form fields on the page (20) back to the server (10) for further processing by the auction software (16). It will be understood that many different varieties of
10 interfaces between the browser (12) and the server (10), and many different HTML templates or the like could be contemplated, and in fact the options are almost limitless, and that all such presentations of similar information are contemplated within the scope of the present invention. Also shown in Figure 4, at (24), is another frame in which live video from the auction site (4) can be played, if captured by a camera (18) on site. This will be discussed in
15 more detail below.

A screen such as the one shown in Figure 4 also shows, in its top corner at (25), the status of the auction insofar as all of the bids being placed. It can be seen that an on-site bidder (aka. a live bidder) has placed the last bid at the amount of \$7,300. The server (10) could be
20 programmed to automatically refresh the HTML page (20) in predetermined time increments,

F&K 1009-02-01

Page 27

or alternatively it can be seen that there are several hyperlinks displayed on the page, shown at (26), which would initiate manual refreshing of a document.

Having outlined the method of participation by an online bidder (7) in an auction in accordance with the present invention, it is also necessary to review the method of participation of the live bidders (6) who are in physical attendance at the auction site (4). A live bidder (6) could place a conventional live bid (8) with respect to an ongoing auction by announcing or confirming the details of such a live bid (8) to an operator of the auction at the auction site (4). The details of live bids (8) received from live bidders (6) present at the auction site (4) would be communicated to the auction Web site system (2) via their data entry at the site terminal (3). As outlined above, the communication between the site terminal (3) and the auction Web site system (2)/server (10) might also consist of data entry forms from the HTML document repository (13) on the server (10) which would allow for the submission of information, namely details of live bids (8) to the auction Web site system (2) and the server (10), where such data would be stored into the bid database (15) along with the details of online bids (9) which had also been received in respect of the same auction lot (23).

It is specifically contemplated that a live auctioneer might also be engaged in the auction of an auction lot (23) and would in their personal presence be able to induce the placement of

F&K 1009-02-01

Page 28

live bids (8) by live bidders (6) present at the auction site (4). The broadcast or webcast of the audio or video of the auctioneer from the auction site (4) to the online bidders (7), by capturing such multimedia content and transmitting same from the site terminal (3) to the server (10) where it in turn can be broadcast to the bidder computers (1), is outlined in more
5 detail below.

Figure 5 shows one example of an HTML form which might be used in the browser (24) of a site terminal (3) to allow an operator to enter details of live bids received at the site (4). Again, in a situation where the site terminal (3) communicated with the Web site system (2)
10 by way of a browser (24), an HTML form or screen similar to that in Figure 4 used for online bids might be used. In this particular case of Figure 5, there is shown as sample screen or type of information which might be submitted from the site terminal (3) to the Web site system (2) in logging live bids. The screen (27) again shows identifying data from the merchandise database regarding the lot currently being auctioned, shown at (28). It will be
15 understood that the lot number or lot identification information might be automatically refreshed to the screen of the site terminal (3) as the auction progresses, or alternatively the data entry of live bids at the site terminal (3)/browser (24) might include also supplying the bid and lot number or identification to which the bid entered is to be applied. Also shown are data entry fields (29) in which the details of the on-site bid can be entered and then a link
20 (30) is shown, the activation of which transmits the content of this type of a form back to the

F&K 1009-02-01

Page 29

Web site (2). Again, as in the case of the online bid screen of Figure 4, it will be understood that virtually infinite variations on an on-site bid entry screen are interfaced with the Web site (2) way of a browser (24) could be contemplated and that all are contemplated within the scope of the present invention. Also shown in the form (27) is a field (31) which displays the
5 current high bid. This could be used by the auctioneer or live bidders in attendance at the auction site in assessing or placing bids.

Upon recordal of bids (8) and (9) in the bid database (15), the server (10) would provide revised or up-to-date auction status information and pricing to all online bidders (7) or live
10 bidders (6) engaged in the auction. The up-to-date status information would be communicated to online bidders (7) by refreshing or updating the display (20) within the online bidders' Web browsers (12). With respect to live bidders (6), the up-to-date pricing or status information could be communicated back to the site terminal (3) or the browser (24) therein for display or announcement to live bidders (6) in attendance at the auction site (4).

15

The system of the present invention could be programmed to monitor the conditions of the sale to detect an auction-closing condition. The auction-closing conditions, which would be the trigger to close the auction of a particular lot (23), might be either a manual trigger by an operator at either the site terminal (3) or the Web site server (10), or alternatively the auction-
20 closing condition might be a calculation or condition based on other circumstances of the

F&K 1009-02-01

Page 30

sale, such as or including, but not limited to, the passage of a certain amount of time between placement of bids, or the like. It will be understood that any particular type of auction-closing condition which could be detected by the server (10) is contemplated within the scope of the present invention. Upon detection of an auction-closing condition, the server
5 (10) would accept no further bids (8) and (9) and the successful bidder could be determined with respect to the lot (23) being auctioned, based on the relevant bids which had been stored in the bid database (15). The winning bid could be selected manually by an operator of the Web site system (2) or the site terminal (3), or alternatively could be automatically be selected by the Web site (2) and communicated to bidders at the site terminal (3) and bidder
10 computers (1).

The following sections outline in more detail some of the various embodiments or functions which might be used in conjunction with the present invention.

15 Auction Software Components

The server (10) of the Web site system (2) has a series of software components therein for the operation of an auction sale. Many software components are already available for the management of auction sales or the management of bidding during an auction sale. The
20 modification of these software components and the supporting hardware to accept bids from

F&K 1009-02-01

Page 31

both live and online bidders (6) and (7) is at the heart of the invention.

The software components in a typical auction system might include a merchandise management component (19) which is operatively connected to an manages a merchandise database (14) which contains information pertaining to auction lots (23), as well as a bid management system (20) which will access a bid database (15) and store details of bids received by the system therein. There might also be included an auction control component (21) which is actually responsible for receiving bids transmitted from bidders and forwarding them to the bid management system (20) for recordal in the bid database (15), as well as which might provide the up-to-date status information back to bidders involved in the auction and/or monitor the auction for the occurrence of an auction-closing event. Insofar as many various types of software components could be used, it will be understood that all such variations are contemplated within the scope hereof.

As outlined in the general summary section above, the merchandise database (14) might contain both publicly and externally accessible information regarding various merchandise lots (23) for sale, which information could be viewed or accessed by online bidders (7) from their computers (1), or by a live bidder (6) either by way of a browser (24) on the site terminal (3) or the information could be physically communicated to live bidders (6) at the auction site (4) by an operator of the site terminal (3). The database (14) might also include

F&K 1009-02-01

Page 32

internal information used in the pricing or conduct of an auction of the particular merchandise lot (23) to which it pertains. It will be understood that the type of information which can be stored in the merchandise database (14) is limited solely by the data structure thereof and that all such data structures are contemplated within the scope of the present
5 invention.

The level of detail of information stored in the merchandise database (14) might vary. In a bare situation, the merchandise database (14) may contain only skeletal information for the use of the system (2) in the conduct of auction sales. Alternatively, where information from
10 the merchandise database (14) is going to be made available to either online or live bidders, (7) and (6) respectively, for review in the course of an auction the database (14) might contain more detailed publicly available information such as specifications or details of lots (23) stored therein.

15 The Web server (10) of the auction Web site system (2) of the present invention would include software components (16) which would carry out the administration and operation of the system. The first element of the software components (16) would be a merchandise management component (19) which would be responsible for the upkeep of the records of merchandise lots (23) stored in the merchandise database (14). As summarily outlined
20 above, the system (2) includes a merchandise database (14), each record of which would

F&K 1009-02-01

Page 33

correspond to a merchandise lot (23) which was to be auctioned using the Web site system (2) of the present invention. The merchandise database (14) is stored in the memory of the server (10) and the merchandise management component (19) could be any software component capable of accessing and managing or administering the merchandise database (14).

It will be understood that the database structure of the merchandise database (14) could be any type of a database or file structure which could be administered by a software component (19) within the Web server (10), and that all types of data structures are contemplated within the scope of the present invention.

The merchandise management component (19) would have several functions. The first function of the merchandise management component (19) would be to maintain any changes made to records in the merchandise database (14) as a result of or during auctions conducted by the remainder of the system (2). As well, the merchandise maintenance component (19) could be responsible for serving information from the merchandise database (14) either to other software components within the system (2) or to a browser (12) of a bidder in a bidder computer (1). While beyond the immediate scope of the present invention, it will be understood that the merchandise management component software (19) could also allow for administration and adding or deleting lots to or from the database (14), or archiving

F&K 1009-02-01

Page 34

information therefrom upon completion of various auction sales.

The merchandise management component (19) would interface with the bid management component (20), outlined in more detail below, as well as the auction control component (21) of the system (2), which is also discussed in more detail below, insofar as the auction control component (21) needs to access up-to-date lot information from the merchandise database (14), and bids likely need to be referenced to a record in the merchandise database (14) when written to the bid database (15).

The next software component of the computer software (16) within the server (10) would be the bid management component (20). The bid management component (20) would be present in the software (16) in the server (10) and would be responsible for the management or administration of a bid database (15).

The bid database (15) would be used to record various bids received from either online bidders (7) or live bidders (6) at the Web site system (2) with respect to auctions of various auction lots (23). The bids which are recorded in the bid database (15) could then be reviewed by a software component upon completion of an auction to determine the winning bid. Storage of the bidding files for later historical analysis of the bidding patterns in a particular auction, or even for security purpose to review who made which bids when, is also

F&K 1009-02-01

Page 35

contemplated herein.

It will be understood that the type of information which would be recorded in the bid database (15) with respect to bids placed by bidders in an auction sale could again vary in
5 levels of complexity. Likely, the basic information which would need to be stored would be the bid price, as well as an identifier or identification of the bidder placing the bid which might be linked to a bidder database, as well as an identifier of the particular auction lot (23) within the merchandise database (14) upon which the bid was placed. Other data checking fields in the data structure of the bid database (15) might include date and time of bids,
10 validation or processing flags or the like. It will be understood that the bid maintenance component (20) is responsible for the maintenance of the bid database (15).

As in the case of other databases contemplated within the scope of the present invention, the bid database (15) would, in a preferred embodiment, be a database structure containing a
15 plurality of records, each record corresponding to a bid placed by a bidder with respect to a merchandise lot (23). It will be understood that the structure of the database (15) could actually be any type of a database or other file structure which is accessible to the system and software components within the server (10). Summarily, the bid database management component (20) could be any software component capable of accessing and administering the
20 particular database structure chosen for the bid database (15).

F&K 1009-02-01

Page 36

In addition to the requirement to maintain information pertaining to auction lots (23) to be auctioned for sale, as well as to maintain complete information pertaining to bids received from bidders on auction lots (23) when offered for sale, the next auction software component
5 which needs to be examined briefly is the auction control component itself. It would be necessary to have an auction control component (21) installed within or operatively connected to the server (10) as well, which auction control component (21) would be capable of coordinating the conduct of an information recordal during an actual auction of an auction lot (23).

10

The auction control component (21) could be any software component installed on or operatively engaged with the server (10) which is capable of receiving details of bids transmitted either from the bidder computers (1) of online bidders (7), or alternatively from a site terminal (3) with respect to live bids placed by live bidders (6) at the auction venue (4),
15 and shuttling those details to be recorded in the bid database (15) in the proper order and fashion.

The auction control component (21) would also be responsible for the communication of up-to-date auction pricing and status information to all bidders, as required.

20

F&K 1009-02-01

Page 37

It will be understood that any software component capable of performing these duties is contemplated within the scope of the present invention.

Figure 3 demonstrates the transaction flow in an auction of a lot (23) by the system of the present invention. An online bidder who wishes to access the auction send a request (3A) from their browser (12) to the Web site (2) to receive status information or a bid entry form from the server (10). The server (10) serves or sends back the requested information from its HTML document repository (13), which is shown at Step 3B. Shown at 3C, the server (10) will communicate up-to-date status information to the browser (24) of the site terminal (3).

In the case where the next action in the auction is the placement of an online bid by an online bidder, the online bidder could enter the particulars of their online bid in the HTML form and send their bid, as an HTTP post, back to the server (10). This is shown at Step 3D. The server (10), upon receipt of the online bid details 3D, will by the auction software (16) record the details of an online bid in the bid database (15). This is shown at Step 3E. Steps 3B and 3C might then be repeated, namely to refresh the auction status and bid level with respect to the auction lot to the bidders accessing the bidding session. If a live bidder next wished to place a bid, they would make their bid at the auction site (4) and an operator of the site terminal (3) would send the details of the live bid to the server (10). This is shown at Step 3F. Again, Step 3E would be repeated, namely to record the details of this bid to the bid

F&K 1009-02-01

Page 38

database (15). The acceptance of online bids in this fashion would continue until the auction-closing condition was detected.

The auction software components contained in the server (10) would also be responsible for closing the auction upon detection of the auction-closing condition. As outlined in more detail above, an auction might be closed by manual triggering of the close of the auction from either the location of the site terminal (3) or the server (10), or in the alternative to a manual trigger, the auction closing condition might be a preprogrammed condition related to time passing between bids or some other calculation, and it will be understood that any such preprogrammed detection condition is also contemplated within the scope of the present invention.

Media Capture

It is specifically contemplated that the system and method of the present invention might lend themselves to use in a hybrid auction format combining online bidding with the format of a traditional auction including an auctioneer at an auction site (4). The experience of being in attendance at the auction site (4) can be communicated to online bidders (7) at their bidder computers (1) by capturing various media input such as audio or video footage at the auction venue (4) and transmitting that to the browsers (12) of the bidder computers (1).

F&K 1009-02-01

Page 39

It is specifically contemplated that at least one media capture device, such as a microphone or video camera, could be used at the site venue (4) and could be operatively connected to the site terminal (3). Software components in the site terminal (3) could include the necessary software to transmit the input from the one or more media capture devices at the auction venue (4) from the site terminal (3) to the server (10) of the Web site system (2), and additional software components within the Web site server (10) could then redistribute or broadcast that content to the bidder computers (1) which could be modified with the necessary software components or plug-ins in the browser (12) to receive this information.

It is specifically contemplated that the media capture device(s) used at the location (4) might include audio microphones or video cameras or the like, to provide audio and video coverage of the actual auction taking place at the venue (4) to online bidders (7) at their bidder computers (1).

By simply capturing the audio or video content at the auction location (4) and transmitting it from the site terminal (3) to the server (10) for distribution to the bidder computers (1), the processor intensive task of streaming or serving that content to the bidder computers (1) is consolidated at the server (10) rather than requiring additional processing overhead at the site terminal (3). This is in keeping with the intention of the present invention to keep the

F&K 1009-02-01

Page 40

equipment requirements at the auction site (4) at a minimum.

The site terminal (3) might be adapted to process the input from the media capture devices, ie. microphones or cameras, in advance of transmission of same to the server (10). For example, the site terminal (3) might have software components installed therein which would compress the signals or input from the media capture devices before transmitting same to the server (10) of the Web site system (2), which would decrease the bandwidth requirements of the connection between the site terminal (3) and the server (10).

In the case of audio or video data being captured at the auction location (4) for eventual transmission to the bidder computers (1), the server (10) might be adapted with the necessary hardware and/or software components to use streaming technology or some other method of broadcasting of such content to bidder computers (1), and then the browser (12) in the bidder computer (1) must simply have the proper plug-in or software components added thereto in order to view or receive this information. For example, in the case where a bidder computer (1) was a Microsoft Windows™ computer operating the Internet Explorer™ web browser, by installation of an audio or video plug-in, an online bidder (7) would be able to hear the auctioneer at the auction location at their bidder computer (1).

It will be understood that the provision of both audio and video by use of more than one

F&K 1009-02-01

Page 41

media capture device would provide the best simulated hybrid auction experience for online bidders (7), but it will also be understood that either video, audio or some other media capture device could be used and that the provision of only one media stream is also contemplated within the scope of the present invention. In certain circumstances, one media capture device might be able to capture both audio and video and that might be able to be broadcast to bidder computers (1) via the site terminal (3) and the server (10), as a single media stream. It will again be understood that all such variations are contemplated within the scope hereof.

Communication Between the Site Terminal and the Server

As outlined in detail herein, one of the primary objectives of the present invention is to allow for the operation of a hybrid auction sale wherein a traditional live auction could be held, and online bidders could participate as well as live bidders at the auction site. In order to maximize the attraction of this type of an auction method, it is necessary to minimize the site requirements at the auction site (4) by requiring as little hardware as possible to be installed therein. It is specifically contemplated that the site terminal (3) could be connected to the remainder of the Web site system (2) and its server (10) either by way of a wired connection or a modem connection, or alternative as a wireless connection. The protocol used to communicate between a site terminal (3) and the Web site system (2) might be TCP/IP or

F&K 1009-02-01

Page 42

another Internet protocol, or some type of an internal or proprietary networking protocol might alternatively be used, and it will be understood that the concept of the present invention applies equally to any type of a communications link between the Web site system (2) and the site terminal (3) regardless of the hardware or communications protocols employed.

Conclusion

While the invention has been described herein with reference to certain preferred embodiments, these embodiments have been presented by way of example only, and not to limit the scope of the invention. Accordingly, the scope of the invention should be defined only in accordance with the claims that follow. In the following claims, reference characters used to designate claim steps are provided for convenience of description only, and are not intended to imply any particular order for performing the steps.

F&K 1009-02-01

Page 43

CLAIMS:

We claim:

1. An apparatus for the conduct of an auction from a physical location allowing for the participation of both live bidders and online bidders, said apparatus comprising:

- a) an auction web site system which is able to communicate with the bidder computers of online bidders and receive online bids therefrom, said web site system including auction software components; and
- b) a site terminal at said physical location and operatively connected to said web site system, which site terminal can send the details of live bids to said web site system;

wherein online bids and live bids are recorded by said auction software components in said web site system.

F&K 1009-02-01

Page 44

2. The apparatus of Claim 1 wherein up-to-date status information of the auction is displayed to bidders by the Web site system.
3. The apparatus of Claim 1 wherein live bids and online bids are recorded by the web site system in the order received.
4. The apparatus of Claim 1 further comprising at least one media capture device operatively connected to said site terminal, wherein the media input from said media capture device is transmitted by said site terminal to said Web site system, where said Web site system includes media broadcast components which will transmit said media input from said media capture device to bidder computers.
5. The apparatus of Claim 4 wherein said site terminal processes said media input before transmitting same to said web site system.
6. The apparatus of Claim 5 wherein said media input is compressed before

F&K 1009-02-01

Page 46

11. The apparatus of Claim 1 wherein the web site system and the site terminal are one computer.
12. The apparatus of Claim 1 wherein the web site system and the site terminal are separate computers.
13. The apparatus of Claim 1 wherein the web site system is not located at the auction location.
14. The apparatus of Claim 1 wherein said auction software components comprise:
 - a) a merchandise database containing information pertaining to auction lots;
 - b) a bid database containing details of bids received from bidders with respect to auction lots;

F&K 1009-02-01

Page 47

c) an auction control system which during the conduct of an auction will receive live bid details from the site terminal and online bids from bidder computers and record the details of said bids in the bid database; and which upon detection of an auction-closing condition will accept no further bids and the successful bidder will be determined based on accepted bids stored in the bid database.

15. The apparatus of Claim 14 wherein the auction-closing condition is a manually initiated closing of an auction by an operator of said Web site system.
16. The apparatus of Claim 14 wherein the auction-closing condition which is detected is a based on a preprogrammed formula which can be automatically detected by the auction control system.
17. The apparatus of Claim 16 wherein the auction-closing condition which is detected is the passage of a predetermined amount of time between the placement

F&K 1009-02-01

Page 48

of bids.

18. A method of conducting an auction allowing the placement of online bids from online bidders as well as the placement of live bids from live bidders present at an auction location, said method comprising:

- a) providing an auction web site system which can communicate with the bidder computers of online bidders, said web site system including auction software components capable of receiving and recording online bids and live bids in respect of auction lots;
- b) providing a site terminal at the auction location operatively connected to said web site system;
- c) with respect to an auction lot, using said web site system and site terminal to conduct an auction in the following steps:
 - i) accepting online bidders to transmit online bids from bidder computers to said web site system;

- ii) allowing live bidders to place live bids at the auction location, said live bids being being transmitted from said site terminal to said web site system;
 - iii) recording online bids and live bids received by the Web site system in a database;
 - iv) upon detection of an auction-closing condition, ceasing the acceptance of any further bids by said web site system.
19. The method of Claim 18 further comprising determining the successful bidder after detection of the auction-closing condition.
20. The method of Claim 18 wherein the conduct of the auction further comprises displaying information pertaining to the auction lot to online bidders at their bidder computers.

F&K 1009-02-01

Page 50

21. The method of Claim 18 wherein bids are recorded in said web site system in the order which they are received.
22. The method of Claim 18 further comprising providing at least one media capture device operatively connected to said site terminal, and transmitting media input from said media capture device from the site terminal to the Web site system, and then broadcasting said media input from said Web site system to bidder computers.
23. The method of Claim 22 further comprising processing of the media input from said media capture device by the site terminal in advance of transmitting same to said Web site system.
24. The method of Claim 23 wherein the processing of the media input from the site terminal includes compressing said media input.

F&K 1009-02-01

Page 1

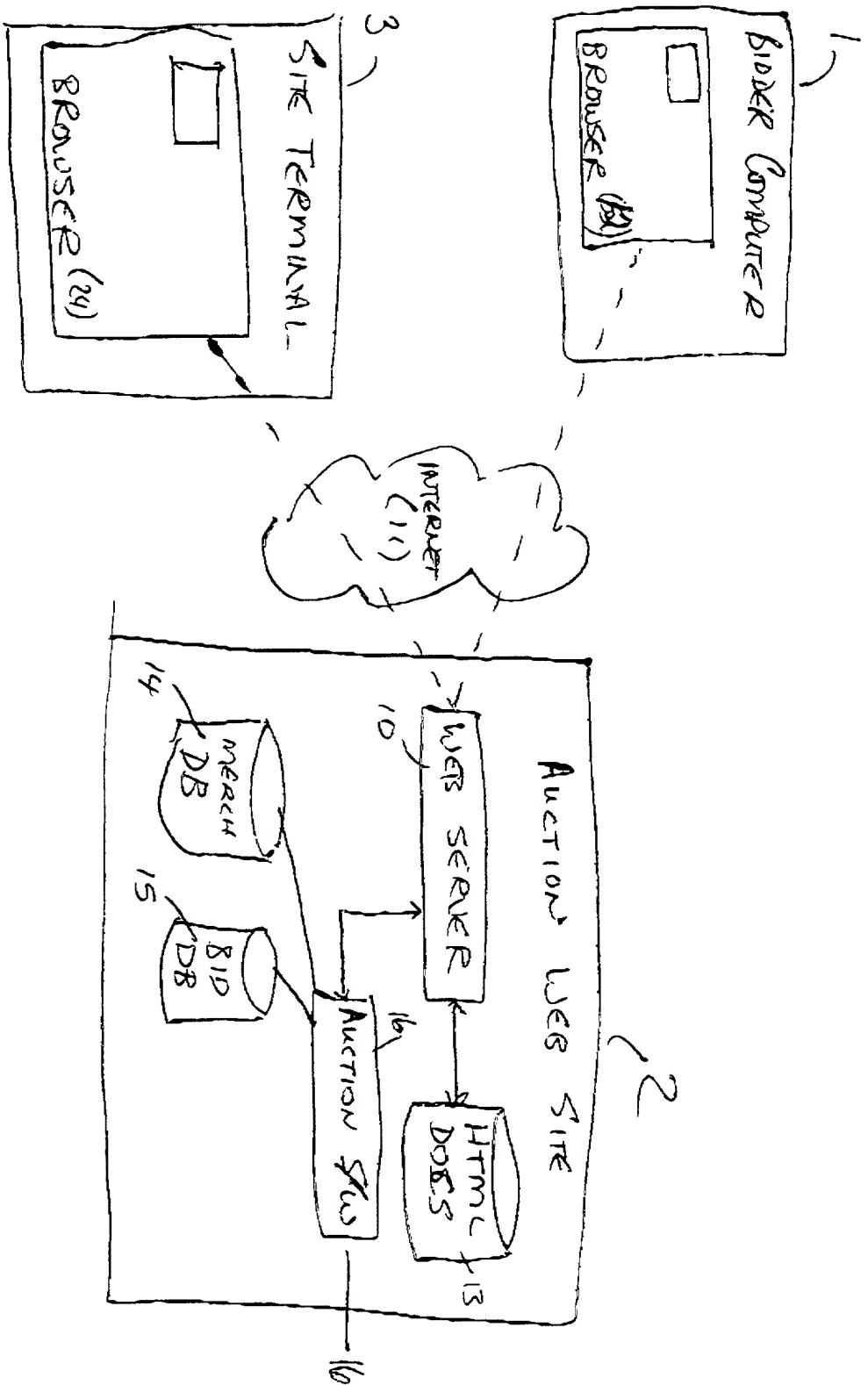
ABSTRACT

5 A system for the hosting of a combined auction, with live bidders in physical presence at the auction site as well as online bidders being able to view the auction and bid over the Internet.

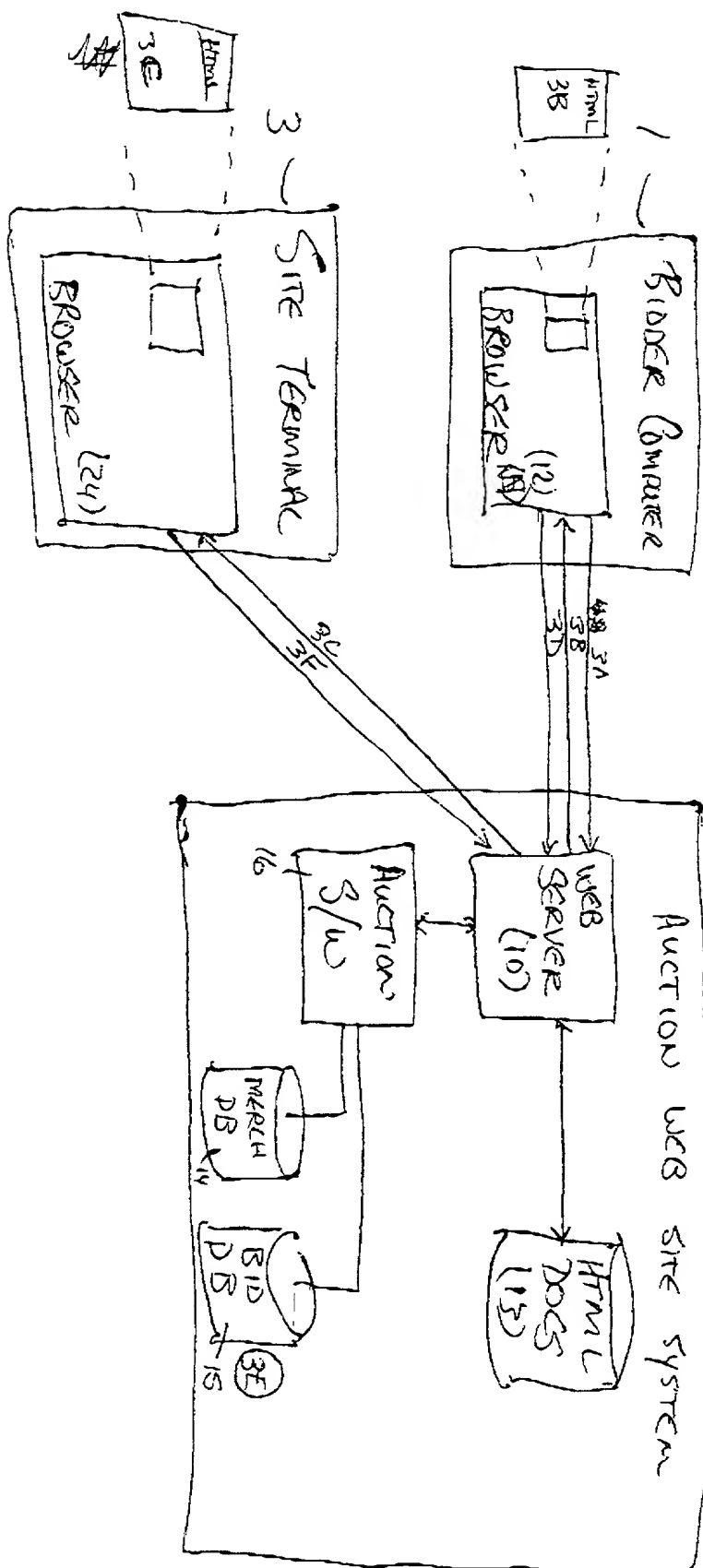
Auction and bid processing are centralized on a central control system. A remote module is used at the actual physical site of the auction and provides site data to the central control system for handling and distribution to bidders. The technical requirements at the actual
10 auction site are minimized by the centralization of the majority of auction processing, and high-speed network connectivity requirements between the auction site and the central processing system are minimized.

15

Fig. 2



21



- 3A: HTTP sends browser request to server to enter/view data (get doc from server)
- 3B: HTML send auction info from server
- 3C: HTML send auction info from server
- 3D: HTTP post online bid details to server
- 3E: post online bid details to bid database
- 3F: HTTP post live bid details to server

[illegible]

FIGURE 4:

20

26

21

22

25

24

23

26

26

LIVE GLOBAL BID - Microsoft Internet Explorer

http://www.livglobalbid.com/auction.html

Back Stop Refresh Home Basic Favorites Mail File Edit Database Real.com

Refresh Use this Refresh button to update current and next lots when a lot closes.

Current Lot #1 - 1988 Case IH 730 Pull Type (for full item listing, [click here](#))

1988 Case IH 730 Pull Type, 30', needs 3 belts to be field ready, excellent shape, canvases and cutting bar like new, SN-133C120C003582. All units at sale location.

Suggested selling price \$6250.00US.

For a more detailed evaluation, [click here](#).

Next Lot #10 - MF 360 Discer (for full item listing, [click here](#))

MF 360 Discer, 18", good condition, Aveco boxes, SN-002045. All units at sale location.

Suggested selling price \$1050.00US.

For a more detailed evaluation, [click here](#).

We are currently selling: Lot #1 - 1988 Case IH 730 Pull Type

If the item is not shown in the window above, click the refresh button in the window above.

Your Paddles: White

\$250.00 \$500.00 \$1000.00 \$5000.00 Refresh Bids

Current High Bid: \$7600.00 Place your bid by pressing the appropriate button above

Going Once Going Twice Gone

On-Site Bidder has bid \$7300.00 at Wed Oct 16 17:58:19 2000 GMT

On-Site Bidder has bid \$7350.00 at Wed Oct 16 17:58:19 2000 GMT

Click here to refresh this window if the media freezes.

Share Clip Author Copy/print Print

Enter Other Bid: (enter the full amount you wish to bid)

Place Bid Refresh

SHARP, S.

FIG. 5

27

ON-SITE BID ENTRY

28

LOT: #1 1988 Case IH730 Pull Type

Enter bidder number: 143

29

Enter bid amount: 7300

29

[Click here to submit](#)

31

Current high bid: \$7100

30

001207 00000000

DECLARATION FOR UTILITY PATENT APPLICATION

Declaration submitted with initial filing

Applicant(s): **Worldwide Farm Equipment Auctions.com Ltd.**

Inventors(s): **Zeljko Stefanovic
Roe Peterson
Bob Francis**

Application No.: **Attached**

Title: **SYSTEM AND APPARATUS FOR
HOSTING COMBINED ONLINE AND
LIVE AUCTIONS**

As below named inventors, we (or I, where only one name is listed above as applicant and signed below, and in which case the word 'we' used herein refers to the sole inventor listed above) hereby declare:

Our residence and post office address are as stated below next to our names.

We believe that we are the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter that is claimed and for which a patent is sought on the invention entitled , the specification of which

XX is attached hereto unless the following box is checked:

_____ was filed on _____ as United States Application Number or PCT
International Application Number _____; and was amended on
_____, if applicable.

We hereby state that we have reviewed and understand the contents of the above-identified application, including the claims, as amended by any amendment referred to above.

We acknowledge the duty to disclose to the Patent & Trademark Office all information known to me to be material to patentability as defined in 37 C.F.R. 1.56.

If this application is a continuation-in-part application, we acknowledge the duty to disclose to the Patent & Trademark Office all information known to me to be material to patentability as defined in 37 C.F.R. 1.56, which became available between the filing date of the prior application and the national or PCT international filing date of the prior application and the national or PCT international filing date of this continuation-in-part application.

We hereby claim the benefit under 35 U.S.C. 119(e) of any United States provisional application listed below:

Serial No.

Filing date

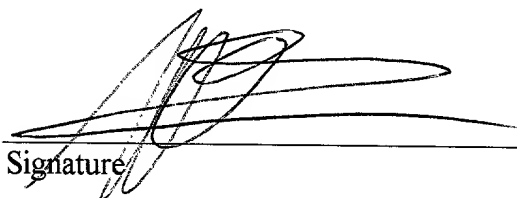
POWER OF ATTORNEY

In the matter of the above entitled application, I hereby appoint Charles G. Lamb, Reg. No. 24,783, James R. Higgins, Jr., Reg. No. 29,264 and John F. Salazar, Reg. No. 39,353, as my attorneys to prosecute this application and to transact all business in the U.S. Patent and Trademark Office connected therewith, and I request that all communications concerning this application be addressed to John F. Salazar, Middleton & Reutlinger, 2500 Brown & Williamson Tower, Louisville, Kentucky 40202; telephone (502) 584-1135; fax (502) 561-0442.

DECLARATION

We hereby declare that all statements made herein of our own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that wilful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such wilful false statements may jeopardize the validity of the application or any patent issued thereon.

Zeljko Stefanovic


Signature

OCT-18-2000
Date

Citizenship: Canadian
Residence/Post Office Address: 1231 Stadacona Street West
Moose Jaw, Saskatchewan
Canada S6H 6J3

Roe Peterson


Signature

OCT 18/2000
Date

Citizenship: Canadian
Residence/Post Office Address: 1126 Lindsay Street
Regina, Saskatchewan
Canada S4N 6R2

Bob Francis

Baldwin

Signature

Q818/2000

Date _____

Citizenship:

Canadian

Residence/Post Office Address:

Box 1996

Moose Jaw, Saskatchewan

Canada S6H 7N7

[illegible]